Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Hydrochlorothiazide USP
Commercial Name Not available.
Product Use Medication, a diuretic and antihypertensive agen
Restrictions On Use No uses advised against

Product Code 55-1611

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 Carcinogenicity Category 2; H351 Germ Cell Mutagenicity, Category 2; H341 Classification according to Council Directive 67/548/EEC [DSD] Carc. Cat. 3; R40 - Muta Cat. 3; R68

Signal Word WARNING

Hazard Statement(s) Suspected of causing genetic defects. Suspected of causing cancer.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response IF exposed or concerned: Get medical advice/attention.
Storage Store locked up.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulation

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Hydrochlorothiazide USP
% By Weight >98.0
CAS# 58-93-5
Molecular Weight 297.73 g/mole
Chemical Formula C7H8ClN3O4S2
Synonym(s) 6-Chloro-3,4-dihydro-2H-1,2,4-benz thiadiazine-7-sulfonamide-1,1-dio de

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
1) Hydrochlorothiazide USP	58-93-5	100	Not Available.	ORAL (LD50): Acute: 1175mg/kg [Rat].

Section 4: First-Aid Measures

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician

Skin Contact Immediately wash with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical advice if irritation persists

Eye Contact Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical advice if irritation persists.

Ingestion Call a physician. Wash out mouth with water provided person is conscious.

Symptoms/Effects

Acute Hydrochlorothiazide is generally a very safe diuretic. Clinical toxicity is relatively infrequent and may result from overdosage, adverse reactions or unexpected hypersensitivity. Main risks: electrolytes imbalances that may lead to cardiac arrhythmias and orthostatic hypotension. Metabolic disturbances, such as hyperglycemia and hyperuricemia. Aggravation of hepatic and/or renal insufficiency, hypersensitivity reactions, blood dyscrasias, acute noncardiogenic pulmonary edema. Gastrointestinal irritability and central nervous system manifestations. Target organs: kidneys, heart, central nervous system

Delayed Hydrochlorothiazide is generally a very safe diuretic. Clinical toxicity is relatively infrequent and may result from overdosage, adverse reactions or unexpected hypersensitivity. Main risks: electrolytes imbalances that may lead to cardiac arrhythmias and orthostatic hypotension. Metabolic disturbances, such as hyperglycemia and hyperuricemia. Aggravation of hepatic and/or renal insufficiency, hypersensitivity reactions, blood dyscrasias, acute noncardiogenic pulmonary edema. Gastrointestinal irritability and central nervous system manifestations. Target organs: kidneys, heart, central nervous system

Immediate Medical Attention

No information available. Persons with pre-existing skin, eye, or respiratory disease may be at increased risk from the irritant or allergic properties of this material. Attending physician should treat exposed patients symptomatically

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder or appropriate foam

Unsuitable Extinguishing Media

For this substance/mixture no limitations of extinguishing agents are given

Products of Combustion

No unusual fire or explosion hazards noted

Firefighters Special Equipment and Precautions

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing. Prevent fire-fighting water from entering surface water or groundwater.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3 Methods and material for containment and cleaning up Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site with water and detergent after material pick up is complete. 6.4 Reference to other sections See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal

Section 7: Handling and Storage

7.1 Precautions for safe handling Use appropriate, approved safety equipment, such as approved respirator, compatible chemical-resistant gloves (butyl rubber or nitrile), and chemical safety goggles. Use only in chemical fume hood. Observe the usual precautions required for chemicals with dust explosive properties. 7.2 Conditions for safe storage, including any incompatibilities Keep in a cool, dry, dark location in a tightly sealed container. Keep away from incompatible materials, ignition sources and untrained individuals. 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	There are no currently occupational exposure limit values established for the substance.
Engineering Controls	Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits
Personal Protection	Eye and face protection: Wear appropriate protective eyeglasses or chemical safety goggles. Skin protection: Wear appropriate protective clothing and gloves to prevent skin exposure. Gloves material: butyl rubber or nitrile. Respiratory protection: In an emergency, respiratory protection must be worn. Environmental exposure controls: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Industrial hygiene: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

Section 9: Physical and Chemical Properties

Appearance	White or almost white solid, crystalline powder
Odor	Odorless
Odor Threshold	Not available.

Melting Point	268-273 °C	**pH**	Not available.
Freezing Point	Not available.	**Vapor Pressure**	< 0.0000001 kPa at 25 °C
Boiling Point/Range	Not available	**Vapor Density**	Not available.
Decomposition temperature	Not available.	**Viscosity**	Not available.
Partition Coefficient: n-octanol/water	Log Pow approx. 0.9 (25 °C)	**Evaporation Rate**	Not available.
Flash Point	Not available.	**Autoignition temperature**	> 932 °F (> 500 °C)
Flammability	Not available.	**Flammability or Explosive Limits:**	
		Lower	Not available.
		Upper	Not available.

Solubility(ies)	Very slightly soluble in water, soluble in acetone, sparingly soluble in alcohol. Dissolves in dilute solutions of alkali hydroxides.
Other	Not available.

Section 10: Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Material is stable under normal conditions
Hazardous Polymerization	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	Contact with incompatible materials. Strong heating.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon oxides, sulfur oxides, hydrogen chloride, and nitrogen oxides

Section 11: Toxicological Information

RTECS DK9100000

Acute Toxicity
Acute Oral LD50 Mouse 1175 mg/kg Rat 2750 mg/kg

Skin Corrosion/Irritation
Not available.

Serious Eye Damage/Irritation
Not available.

Respiratory or Skin Sensitization
Not available.

Germ Cell Mutagenicity
Suspected of causing genetic defects

Carcinogenicity
Suspected of causing cancer.

Reproductive Toxicity
In rats, no teratogenic, embryotoxic or foetotoxic effect was observed

Routes of Entry
Not available.

Symptoms Related to Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

Potential Health Effects
Pharmacologically active material. Occupational exposure may cause physiological effects.

Target Organ(s) Not available.

Section 12: Ecological Information

Ecotoxicity
Acute toxicity to fish: LC50 > 100 mg/l/96h (Brachydanio rerio); Acute toxicity to daphnia: EC50 > 100 mg/l/48h (Daphnia magna); Acute toxicity to algae: EC50 > 100 mg/l/3h (Activated sludge);

Persistance and Degradability
Biological elimination: 26.3% (DOC). Initial conc. 20 mg DOC/l. Not readily degradable.

Bioaccumulative Potential
No appreciable bioaccumulation potential is to be expected (log Pow <1)

Mobility in Soil
Not available.

Other Adverse Effects
Not available.

Section 13: Disposal Considerations

Waste Disposal
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Disposal of Container
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Other Considerations
Not available.

Section 14: Transport Information

DOT Classification
Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information

Regulations
Authorisations: No information available. Restrictions on use: No information available. EINECS: CAS# 58-93-5 is listed in the inventory. DSD (67/548/EEC): CAS# 58-93-5 is not listed in the Annex I. Other chemical regulation: USA - TSCA: CAS# 58-93-5 is listed in the inventory. Canada - DSL: CAS# 58-93-5 is listed in the inventory. Australia - AICS: CAS# 58-93-5 is listed in the inventory. Korea - ECL: CAS# 58-93-5 is not listed in the inventory. Japan - ENCS: CAS# 58-93-5 is not listed in the inventory. China - IECSC: CAS# 58-93-5 is not listed in the inventor

Other
No Chemical Safety Assessment has been carried out for this substance

Section 16: Other Information

Not available.